# LITERATURE SURVEY

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## CASE STUDY 1

## TITLE

Fashion Recommendation Systems

## AUTHORS

Samit Chakraborty, Md. Saiful Hoque, Naimur Rahman Jeem, Manik Chandra Biswas, Deepayan Bardhan and Edger Lobaton

## PROJECT DESCRIPTION

Fast fashion has grown significantly over the past few years, which has had a significant impact on the textile and fashion industries. An effective recommendation system is needed in e-commerce platforms where there are many options available to sort, order, and effectively communicate to users pertinent product content or information.

Fast fashion retailers have paid a lot of attention to image-based fashion recommendation systems (FRSs), which offer customers a customized purchasing experience. There aren't many academic studies on this subject, despite its enormous potential. The studies that are now accessible do not conduct a thorough analysis of fashion recommendation systems and the accompanying filtering methods. This review also looks at many potential models that might be used to create future fashion suggestion systems.

# CASE STUDY 2

## TITLE

Image-based fashion recommender systems

## AUTHORS

Shaghayegh Shirkhani

## PROJECT DESCRIPTION

This Literature review, it is illustrated a big picture of different research approaches toward fashion recommender systems. The trajectory of studies in fashion recommender systems from the very beginning is introduced. Representing what makes the fashion domain distinguished from other recommender system domains, the sources of complexity in the fashion domain by illustrating how interconnected these concepts are, as a framework that any fashion recommender system can be defined and understood through its conception. Focusing on image-based fashion recommender systems, four main tasks are identified in fashion recommender systems, bringing their characteristics to the fore, including cloth-item retrievals, Complementary item recommendation, Outfit recommendation, and Capsule wardrobes. The studies which have been conducted in each category also have been introduced. In addition, the evolvement trajectory of image-based fashion recommender systems is provided, which consists of three main eras, in addition to considerations of the most recent advancements in computer vision and deep learning-based methods. Finally, the DL-based fashion recommender systems based on employing one single neural network or deep hybrid neural networks highlighting the methods they used and the input are categorized.

# CASE STUDY 3

## TITLE

A Review on Clothes Matching and Recommendation System Based on User Attributes

## AUTHORS

Atharv Pandit, Kunal Goel, Manav Jain  Neha Katre

## PROJECT DESCRIPTION

It's crucial to dress adequately while venturing out into the real world. The confidence of the individual is raised and a very positive impression is made when they have dressed appropriately in clothing that exhibits some degree of style and is worn in a way that complies with societal norms. The goal of the study is to make it easier for customers to locate the best-fitting outfits by taking into account fine elements like style, patterns, colors, and textures, as well as user characteristics like age, skin tone, and favorite colors. It seeks to assist the user in organizing their closet and making stylish clothing selections. It makes an effort to assist the user in dressing appropriately for the occasion and in finding clothing that complements their personal style. In order to create a robust system that discovers the user's matching outfits and provides recommendations, an in-depth analysis of numerous systems that are built for various aspects is undertaken in this research. Systems created to propose clothing using various methodologies have been researched, with both their benefits and drawbacks highlighted. It has also been investigated how to make clothing-detecting systems user-friendly while accepting feedback from the user.